

RADIOPIX

Geotagged Images
Over Two-Way
Radio Networks



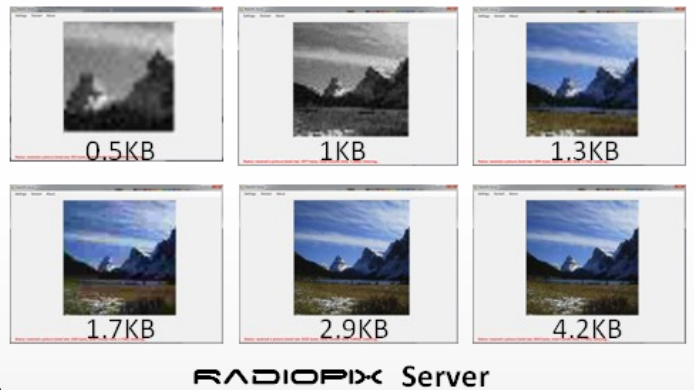
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RADIOPIX



RADIOPIX is a tablet-computer (Android) app that allows users to send pictures from tablet devices to remote servers (**RADIOPIX Server**) through WiFi networks and digital mobile radios. Pictures are sent using optimized, progressive compression techniques so that low-resolution versions of the pictures can be received with fast response time, with progressive updates provided to improve the received image quality over time.



The **RADIOPIX Server** also provides features for integrating and managing received pictures seamlessly on the server side (e.g., to maintain databases of pictures that are captured from mobile radio fleets).

Real-world applications that **RADIOPIX** can be used in include *remote on-field support, scene investigation, surveillance, telemedicine, traffic monitoring and enforcement, and industrial monitoring.*



Automate Your Workflows and Improve Productivity and Quality of Service



Real Time, Interactive, Electronic Communication and Imaging Exchange

RADIOPIX is compatible with Android 4.2 (Jelly Bean), and the **RADIOPIX Server** is compatible with Windows XP/Vista/7/8. Under stringent bandwidth conditions in digital radio networks, **RADIOPIX** provides a solution that allows network users to:

- Fully customize the resolution of a picture.
- Adapt application parameters to achieve the most desirable trade-off among response time and picture quality.
- Visually see (on the server side) how a received image starts out as having low resolution (with fast response time), and automatically keeps getting updated as time passes.
- Flexibly switch between the supported communication and resolution modes depending on the desired trade-offs among bandwidth, distance, reliability, network availability, and cost.



The image processing capabilities that **RADIOPIX** supports to customize trade-offs between picture resolution and response time include:

- Extracting a specified percentage ("bounding box") of a picture relative to the center. This helps to send images faster when only a portion of the captured picture needs to be sent.
- Down-sampling the resolution of a picture by a specified integer factor.
- Compressing a picture by a specified ratio.
- Advanced image processing features for customizing trade-offs between response time and image quality.



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